

Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed**1.1. Name of the Data, data collection Project, or data-producing Program:**

Scleractinian Coral Cover Maps Derived from Classified in situ Seafloor Imagery for Select U.S. Locations in the Pacific from 2001 to 2015

1.2. Summary description of the data:

Coral cover maps depict percentage of scleractinian (hard) coral cover along survey tracks, overlain on existing bathymetric grids and/or satellite images, for islands and banks across the U.S. Pacific Islands Region. The coral cover data is derived from the classification of in situ seafloor imagery collected from NOAA Coral Reef Ecosystem Program (CREP) optical validation surveys from 2001 to 2015. Each point on the map represents data from a single video frame or photo that has been analyzed using a point count method, and the imagery is classified by the type of substrate type (sand, rubble, etc.) and biological cover type (coral, macroalgae, etc.). All available cover data derived from geolocated seafloor imagery that has been collected and analyzed by CREP within the U.S. coral reef ecosystems of the Pacific is included in the maps; in some cases cover data derived from imagery collected by partners and analyzed by CREP may be included as well.

Coral cover maps for each location are available via the Pacific Islands Benthic Habitat Mapping Center (PIBHMC) website at www.soest.hawaii.edu/pibhmc. In addition, the associated data and information about the data sources and collection methods are included in a zip file with each of the maps.

1.3. Is this a one-time data collection, or an ongoing series of measurements?

One-time data collection

1.4. Actual or planned temporal coverage of the data:

2005, 2007 to 2009, 2012, 2014 to 2015, 2001 to 2005, 2008, 2003 to 2004, 2010, 2002, 2004, 2002, 2004, 2006, 2008, 2012

1.5. Actual or planned geographic coverage of the data:

W: -160.301617, E: -154.759014, N: 22.252043, S: 18.889193

W: -178.452338, E: -164.687223, N: 28.46535, S: 23.574214

W: 142, E: 146, N: 21, S: 12

W: 180, E: -162, N: 18, S: 0

W: -171, E: -169, N: -14, S: -15

1.6. Type(s) of data:

(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)

Map (digital)

1.7. Data collection method(s):

(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)

Instrument: Not Applicable

Platform: Not Applicable

Physical Collection / Fishing Gear: Not Applicable

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:

Annette M DesRochers

2.2. Title:

Metadata Contact

2.3. Affiliation or facility:

2.4. E-mail address:

annette.desrochers@noaa.gov

2.5. Phone number:

(808)725-5461

3. Responsible Party for Data Management

Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:

Rhonda Suka

3.2. Title:

Data Steward

4. Resources

Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?

Yes

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):

Unknown

5. Data Lineage and Quality

NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible

(describe or provide URL of description):

Lineage Statement:

The method to develop the Coral Cover data layers are generally described on the Pacific Islands Benthic Habitata Mapping Center website at http://www.soest.hawaii.edu/pibhmc/pibhmc_mapping.htm#optical. All coral cover maps contain data generated from imagery collected during NOAA CREP towed optical assessment device (TOAD)---or towed camera sled---surveys unless otherwise noted. In a few cases, maps include additional sources of benthic cover data generated from imagery collected during other NOAA CREP surveys, including autonomous underwater vehicle (AUV), remotely operated vehicle (ROV), or towed-diver surveys, or from imagery collected by partners. Specifics are included in each of the zip files in the downloads section.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:**5.2. Quality control procedures employed (describe or provide URL of description):**

All data were subject to quality control procedures to identify obvious problems with navigational accuracy and flag them for either fixing, if possible, or deletion. Also, various automated checks were built into databases where data are housed to flag obviously inaccurate values.

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?

No

6.1.1. If metadata are non-existent or non-compliant, please explain:

Missing/invalid information:

- 7.2. Name of organization of facility providing data access
- 7.2.1. If data hosting service is needed, please indicate

6.2. Name of organization or facility providing metadata hosting:

NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:

<https://www.fisheries.noaa.gov/inport/item/33579>

6.4. Process for producing and maintaining metadata

(describe or provide URL of description):

Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

Yes

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:

ftp://ftp.soest.hawaii.edu/pibhmc/website/data/amsamoa/optical/ofu/ofu_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/amsamoa/optical/tau/tau_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/amsamoa/optical/tutuila/tut_toad_all.zip

ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/agrihan/agr_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/aguijan/agu_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/alamagan/ala_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/anatahan/ana_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/arakane/ara_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/asuncion/asu_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/elevenmile/ele_toad_0308oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/esmeralda/esm_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/farallon_de_pajaros/fpd_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/galvez/gal_toad_optical_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/guam/gua_toad_0308oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/guguan/gug_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/maug/mau_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/pagan/pag_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/pathfinder/pat_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/rota/rot_optical_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/saipan/sai_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/santarosa/srr_toad_0308oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/sarigan/sar_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/stingray/sti_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/supply/sup_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/tff/tff_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/cnmi-guam/optical/zealandia/zea_toad_0307oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/mhi/optical/hawaii/HAW_BH.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/mhi/optical/hawaii/HAW_TOAD_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/mhi/optical/kauai/kau_toad_0505hi.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/mhi/optical/mai/mai_bh.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/mhi/optical/mai/mai_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/mhi/optical/molokai/mol_toad_0504hi.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/mhi/optical/niihau/nii_toad_0505hi.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/mhi/optical/oahu/oah_toad_0505hi.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/brooks/srw_toad_0110tc.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/ffs/ffs_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/gardner/gar_toad_0306oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/kure/kur_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/laysan/lay_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/lisianski/lis_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/maro/mar_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/midway/mid_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/necker/nec_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/phr/phr_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/nwhi/optical/raita/rai_toad_0110tc.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/pria/optical/baker/bak_toad_all.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/pria/optical/howland/how_toad_all.zip

ftp://ftp.soest.hawaii.edu/pibhmc/website/data/pria/optical/johnston/joh_toad_0401oes.zip
ftp://ftp.soest.hawaii.edu/pibhmc/website/data/pria/optical/palmyra/pal_toad_all.zip

7.3. Data access methods or services offered:

Data can be accessed online via the Pacific Islands Benthic Habitat Mapping Center website at <http://www.soest.hawaii.edu/pibhmc/>.

7.4. Approximate delay between data collection and dissemination:

Unknown

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

NO_ARCHIVING_INTENDED

8.1.1. If World Data Center or Other, specify:**8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:****8.2. Data storage facility prior to being sent to an archive facility (if any):**

Pacific Islands Fisheries Science Center - Honolulu, HI

8.3. Approximate delay between data collection and submission to an archive facility:

Unknown

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

University of Hawaii School of Ocean and Earth Science and Technology, NOAA IRC and NOAA Fisheries ITS resources and assets.

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.